01482519 SALEM RIVER AT MAIN STREET, AT SHARPTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°39′15″, long 75°21′52″ referenced to North American Datum of 1983, Pilesgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Main Street, 0.1 mi south of Sharptown, 0.2 mi downstream from Nichomus Run, and 0.8 mi southwest of Marlton Heights.

DRAINAGE AREA.--27.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2007-08.

GAGE.--Reference point only.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Discharge, in ft³/s
Oct 15, 2007	4.67
Feb 6, 2008	25.0
Apr 7, 2008	31.5
Apr 29, 2008	19.9
May 28, 2008	15.5
Jul 2, 2008	5.37
Jul 30, 2008	8.52
Aug 14, 2008	7.48

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007 to current year.

PERIOD OF DAILY RECORD.--July and August 2008.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+or-). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - DISSOLVED OXYGEN: Jul 1-8 and Aug 20-25.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Instantaneous discharge, ft3/s (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)
Oct									
15...	1200	Surface water, regular	4.7	4.9	769	9.3	89	7.3	373
Feb									
06...	0930	Surface water, regular	25	16	747	10.3	88	7.0	271
Apr									
07...	1150	Surface water, regular	32	12	770	10.6	94	7.1	249
29...	0930	Surface water, replicate	20	13	755	7.6	74	7.4	303
29...	*0931*	*QC - Surface water, split replicate*	--	--	--	--	--	--	--
May									
28...	1000	Surface water, regular	15	22	765	6.4	67	7.3	296
Jul									
02...	1030	Surface water, regular	5.4	10	761	6.3	71	7.1	375
30...	1145	Surface water, regular	8.5	8.9	754	6.0	72	7.1	341
Aug									
14...	0925	Surface water, regular	7.5	9.0	--	6.4	71	6.9	322

01482519 SALEM RIVER AT MAIN STREET, AT SHARPTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 3
[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Total nitrogen, water, unfltrd mg/L (00600)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, unfltrd mg/L (00680)
Oct													
15...	16.0	13.1	68	35.5	214	3	.52	.102	2.80	3.3	.050	.125	4.7
Feb													
06...	18.0	8.8	38	24.0	166	6	.67	.083	2.85	3.5	.03	.12	5.0
Apr													
07...	8.5	10.2	35	22.4	154	11	.65	.060	2.11	2.8	.04	.12	6.7
29...	12.0	14.2	61	26.1	189	24	1.1	.178	1.59	2.7	.05	.23	7.1
29...	--	--	*61*	*26.2*	*181*	*25*	*1.1*	*.189*	*1.61*	*2.7*	*.05*	*.23*	--
May													
28...	17.0	18.1	59	25.6	180	24	.81	.084	2.07	2.9	.08	.24	7.4
Jul													
02...	26.0	21.1	81	35.5	234	4	.62	.063	3.00	3.6	.13	.22	5.8
30...	30.0	23.7	63	30.8	226	11	1.2	.085	1.98	3.1	.11	.17	7.0
Aug													
14...	--	20.6	64	28.4	188	5	.70	.082	2.31	3.0	.08	.16	6.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 3
[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	CBOD, water, unfltrd 5 day, mg/L (80082)	Chlorophyll a phytoplankton, fluoro, µg/L (70953)	Pheophytin a, phytoplankton, µg/L (62360)	Boron, water, unfltrd recoverable, µg/L (01022)	Iron, water, unfltrd recoverable, µg/L (01045)
Oct					
15...	E1.6	.9	1.8	103	990
Feb					
06...	<1.0	3.8	3.0	24	1,020
Apr					
07...	2.1	19.8	10.8	21	1,080
29...	<1.0	25.4	18.6	42	1,780
29...	*<1.0*	*27.1*	*22.5*	*41*	*1,810*
May					
28...	<1.0	2.4	6.3	53	1,810
Jul					
02...	E1.3	1.0	2.1	88	1,330
30...	E1.5	9.3	5.3	97	1,270
Aug					
14...	<1.0	15.1	9.4	73	1,220

01482519 SALEM RIVER AT MAIN STREET, AT SHARPTOWN, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008**

Date	Time	Phos-phorus, bed sedimnt total, mg/kg as P (00668)
Jul		
30...	1145	1,600
Aug		
19...	0955	1,300

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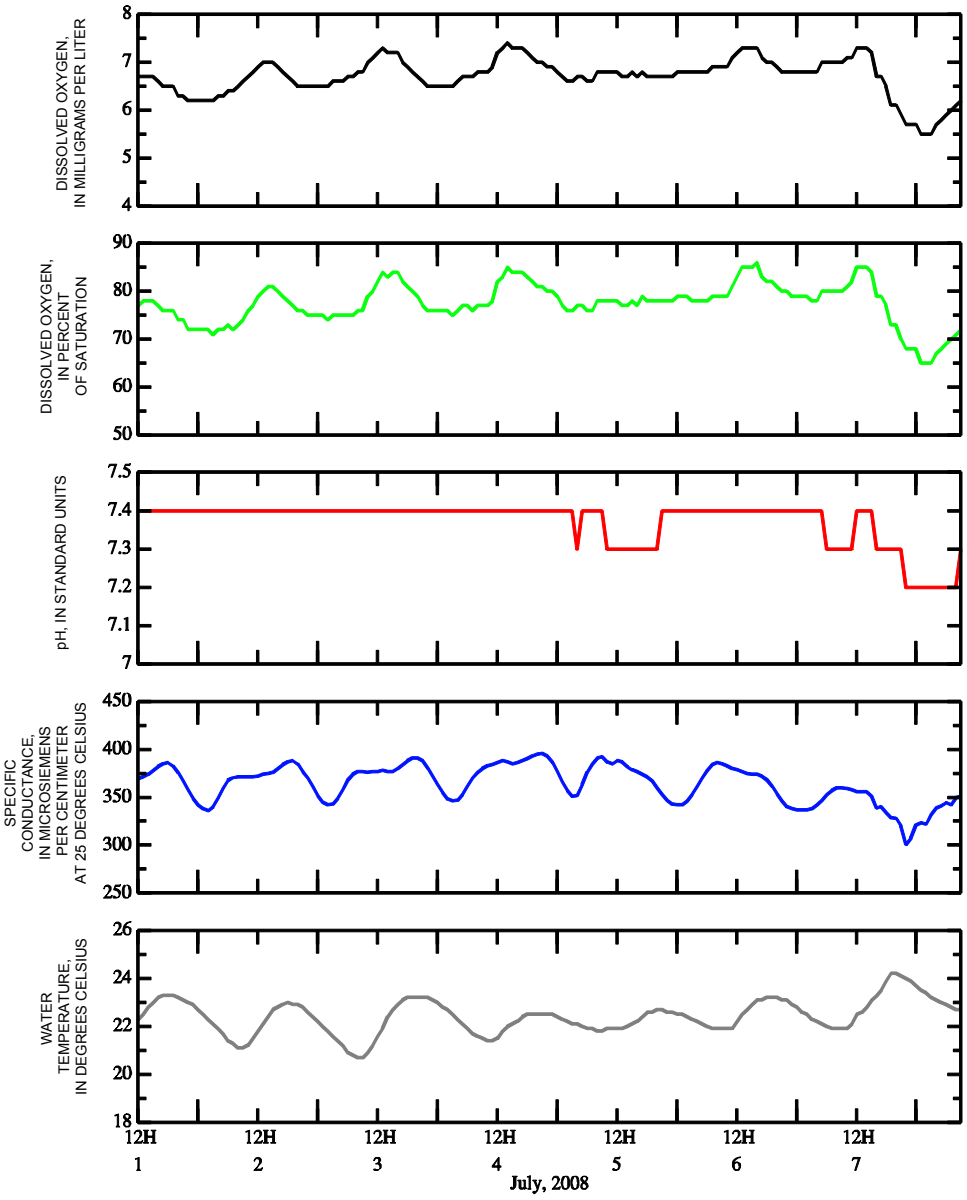
HOURLY WATER-QUALITY-MONITOR VALUES
JULY 1, 2008 TO JULY 8, 2008



01482519 SALEM RIVER AT MAIN STREET, AT SHARPTOWN, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES
AUGUST 20, 2008 TO AUGUST 25, 2008